

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	MODEL ENGINE FAMILY 2009 9NVXH0570AGB		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
TEAR				Diesel	PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD				
2009			9.3		Diesel	MHDD	PTOX					
1	ENGINE'S IDLE	ADDITIONAL IDLE EMISSIONS CONTROL 5										
ESS		N/A.										
ENGINE (	Ü)	ENGINE MODELS / CODES (rated power, in hp)										
		GDT310 / GDT310 (310), GDT300 / GDT300 (300)										
9.3		ODTAIN LOOLONGED (OAO) ODTAGO LOOLONGED (DOO)										
		GDT310 / 0012WZD (310), GDT300 / 0012WZD (300)  [ag: GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc;										
	icable: GVWR=gros =horsepower: kw=k			R xyz=Title 13, California Code o	f Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulations	s, Section 86.abc;				
				ed petroleum gas; E85=85% eth:	anol fuel; MF=muli	ifuela.k.a. BF	=bi fuel; DF=dual fuel; FF=flexible fuel;					
2 L/M/H F	HDD=tight/medium/h	eavy heav	y-duty diesel; UB=u	rban bus; HDO=heavy duty Otto;								
up catalyst TBI=throttle super chan control mod	; DPF=diesel particu e body fuet injection; ger; CAC=charge ai dute; EM=engine mo	late filter; SFI/MFI= r cooler; E dification;	PTOX=periodic trap sequential/multi port GR / EGR-C=exhau 2 (prefix)=parallel;	oxidizer; HO2S/O2S=heated/ox; fuel injection; DGI=direct gasolir st gas recirculation / cooled EGR (2) (sufflx)=in series;	ygen sensor; HAF- le injection; GCAR PAIR/AIR=pulsed	S/AFS=heated/: B=gaseous car d/secondary air	clive catalytic reduction — urea / — ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor; IDVDDI=indIrect/direct diesel injection; injection; SPL=smoke puff limiter; ECWPCM=	xygen sensor); . TC/SC≃turbo/ :engine/powertrain				
ESS=er (per 13 CC	ngine shuldown syste :R 1956.8(a)(6)(D);  I	em (per 13 E <b>xempt</b> =e	CCR 1956.8(a)(6)(i xempted per 13 CCF	A)(1); <b>30g</b> =30 g/hr NOx (per 13 C R 1956.B(a)(6)(B) or for CNG/LNG	CR 1956.B(a)(6)(C fuel systems; N/A	i); APS =interni i=not applicable	al combustion auxiliary power system; ALT=alt (e.g., Otto engines and vehicles);	ernative method				
EMD=	engine manufacturer	diagnostic	system (13 CCR 19	71); OBD=on-board diagnostic s	ystem (13 CCR 19	71.1);						

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	1.70	1.70	1.7	1.7	*	*	*	*	*	*
CERT	0.00	0.00	1.59	1.20	1.6	1.2	0.5	0.00	0.001	0.000	*	*
NTE	0,21		2.12		2.1		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Sleady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification tevel; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-25)

**BE IT FURTHER RESOLVED:** Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR 86.007-15(m)(9).

**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

**BE IT FURTHER RESOLVED:** Engines with the engine code 0012WZD are conditionally certified for use in vehicles that are exempted from the ESS requirements under the amendments approved by the Board on December 12, 2008. In the event the amendments were not approved by the Office of Administrative Law, and thus not becoming effective, the manufacturer will be required to recall these engines, provide the ESS feature, and affix a new engine label bearing the ESS status.

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-004-0341 dated December 24, 2008.

Executed at El Monte, California on this

day of February 2009.

Annette Hebert, Chief

Mobile Source Operations Division